

**University of Montana-Geosciences Department
Environmental Biogeochemistry Laboratory**

PRICE LIST FOR SELF SERVICE BY UM AFFILIATES (Academic Rates)

Effective: September 26, 2013

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Self service fees for using EBL resources by academic users are aimed to cover the cost of supplies and instrument maintenance. Prices on this list are guidelines that are subject to change.

Some EBL facilities are available for use by to non-academic (commercial) customers. Fees for this service are higher and are specified in the "Full Service" price list.

Instrument/Analysis	Charge basis	Charge
In-Lab Instrument Use		
ICP analyses (elements in aqueous solutions)		
Multielement analysis (cyclonic nebulizer or cross flow nebulizer)	hour	\$50.00
Flat fee for commercial standards and supplies	session	\$30.00
IC analyses (inorganic and organic anions)		
Instrument incl. AS14 column, suppressor, eluants	hour	\$30.00
Autosampler vials and caps (plain)	assbly.	\$1.30
Surcharge for autosampler filter caps	piece	\$0.60
Scanning Electron Microscope		
Unassisted use (UM internal users)	hour	\$30.00
Assisted use (UM internal users)	hour	\$50.00
Unassisted use (external academic users)	hour	\$40.00
Assisted use (external academic users)	hour	\$60.00
Test kits		
pH, conductivity, alkalinity, dissolved oxygen, NH ₃ , total suspended sediment	sample	\$5.00
Maximum daily charge:	day	\$30.00
Dissolved carbon analysis		
DOC/DIC on Shimadzu carbon analyzer	hour	\$25.00
Maximum daily charge:	day	\$100.00
Analysis of solid samples		
Total CHNS on CE Elemental Analyzer	sample	\$10.00*
Total CHN on CE Elemental Analyzer	sample	\$6.00*
Total CN on CE Elemental Analyzer	sample	\$5.50*
Inorganic C (coulometrically)	sample	\$5.00
Laser Diffraction Grain Size Analyzer (Mastersizer)	sample	\$5.00
Hg analysis		
CVAFS analyzer (Leeman)	run	\$10.00
CVAAS Direct Mercury Analyzer (Milestone)	run	\$15.00
Dual pre-concentration CVAFS		ask
Miscellaneous equipment		
Centrifuges	run	\$10.00
Drying ovens	run	\$10.00
Muffle furnace	run	\$10.00

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500°C Oven (mercury glassware)	run	\$10.00
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Miscellaneous procedures

Hot Block Digestion (EPA method 3050B), incl. pipettes, supplies, standards	vial	\$8.00
HCl Extraction	vial	\$5.00
HF-AR Microwave digestion	vial	\$30.00
Ball mill with zirconia vials for metals analysis	vial	\$8.00

Laboratory supplies, chemicals, analytical standards, replacement of broken equipment, etc.	item	150 % catalog price**
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Others:

pH meter and probe	day	\$20.00
Conductivity meter and probe	day	\$30.00
Dissolved Oxygen meter and probe	day	\$30.00
Hach alkalinity test kit	day	\$15.00
Broken/lost electrodes and meters	item	150 % catalog price**
Consumables such as pH indicators, spent acid cartridges, etc.	item	150 % catalog price**

* Prices calculated for a minimum of 50 samples, or user assumes costs for consumables. Instrument set-up by user.

** Due to UM accounting fees charged for all transactions made by the EBL. Alternatively, users may purchase the items and provide them to the laboratory.